INTERNATIONAL SEARCH REPORT

International application No. PCT/CN2004/000993

A. CLASSIFICATION OF SUBJECT MATTER				
IPC 7 B01D17/06, C02F1/36 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed	by classification symbols)			
IPC 7	B01D C02F			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name	ne of data base and, where practicable, sear	ch terms used)		
WPI, PAJ, EPODOC, CNPAT(ultrasonic/ultrasound/supe	rsound, emulsion/demulsify/demulsification	n/break/separate)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* A CN, Y, 2539559(QILU) 12.Mar.2003 (12. 03. 2003) A CN, Y, 2296230(Geng Lianrui) 04.Nov.1998 (04. 1) A US, A, 5885424(MOBI) 23.Mar.1999 (23. 03. 199) A US, A, 5147562(USAS) 15.Sep.1992 (15. 09. 1992) A WO, A, 9400757(UYCA) 06.Jan.1994 (06. 01. 1993)	3) whole document 11. 1998) whole document 9) whole document 2) whole document 94) whole document	Relevant to claim No. 1-9 1-9 1-9 1-9 1-9		
Further documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search	Date of mailing of the international search			
24.Sep 2004(24.09.2004)				
Name and mailing address of the ISA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451 Form PCT/ISA/210 (second sheet) (January 2004)	Authorized officer MA, Yu Telephone No. (86-10)62084797			

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/CN2004/000993

			
CN2239559Y	12.03.2003		
CN2296230Y	04.11.1998		
US5885424A	23.03.1999	WO9640603A1	19.12 1996
		NO9705896A	05.02.1998
US5147562A	15.09.1992	US7628062A	07.01.1992
WO9400757A1	06.01.1994	AU4349693A	24.01.1994
			
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Form PCT/ISA/210 (patent family annex) (January 2004)

• 1	国际检索报告		PCT/CN2	004/000993
A. 主题的分	· <u>*</u>			
	IPC 7 B0	1D17/06, C02F1/36		
按照国际专	利分类表(IPC)或者同时按照国家分类和 IPC	C两种分类		
B. 检索领域	:			
检索的最低限	度文献(标明分类系统和分类号)			
IPC 7	B01D C02F			
包含在检索领	域中的除最低限度文献以外的检索文献			
在国际检索时	查阅的电子数据库(数据库的名称,和使用	—————————————————————————————————————)	
WPI, PAJ	, EPODOC(ultrasonic/ultrasound/supersound, emu	lsion/demulsify/demulsifi	cation/break/separate),
CNPAT (7	超声/超声波,乳化物/乳状液/破乳/分离)			
C. 相关文件	:			
类 型*	引用文件,必要时,指明相关段落		相关的权利要求	
A	CN, Y, 2539559(中国石化集团齐鲁石油化工公司) 2003 年 3 月 12 日 (12. 03. 2003) 说		1-9	
	明书全文			
A	CN, Y, 2296230(耿连瑞) 1998 年 11 月 4 日(04.11.1998)说明书全文		1-9	
A	US, A, 5885424(美孚石油公司) 1999 年 3 月 23 日 (23. 03. 1999) 说明书全文		1-9	
A	US, A, 5147562(USAS) 1992 年 9 月 15 日(15. 09. 1992)说明书全文		1-9	
A	WO, A, 9400757(UYCA) 1994 年 1 月 6 日 (06. 01. 1994) 说明书全文		1-9	
□ 其余文	」 C件在 C 栏的续页中列出。	☑ 见同族专利阶		
"E"在国际申记 "L"可能对优 引用文件 用的文件 "O"涉及口头 "P"公布日先	别相关的表示了现有技术一般状态的文件 情日的当天或之后公布的在先申请或专利 法权要求构成怀疑的文件,为确定另一篇 的公布日而引用的或者因其他特殊理由而引 公开、使用、展览或其他方式公开的文件 于国际申请日但迟于所要求的优先权日的文件	"X"特别相关的文件 发明不是新颖的 "Y"特别相关的文件 结合并且这种结 要求保护的发明 "&"同族专利的文件	或原理的在后文件 -, 单独考虑该文件,]或不具有创造性 , 当该文件与另一篇 后合对于本领域技术。]不具有创造性	认定要求保护的
国际检索实际 	完成的日期 24.9 月 2004(24.09.2004)	国际检索报告邮寄 14・10月20	^{]期} 04 (1 4 。 1 (-2004)

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PCT/ISA/210 表(第 2 页)(2004 年 1 月)

传真号: (86-10)62019451

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国际检索报告 关于同族专利的信息 国际申请号 U 016167-8 PCT/CN2004/000993

检索报告中引用的 专利文件	公布日期	同族专利	公布日期
CN2239559Y	12.03.2003		
CN2296230Y	04.11.1998		
US5885424A	23.03.1999	WO9640603A1	19.12 1996
		NO9705896A	05.02.1998
US5147562A	15.09.1992	US7628062A	07.01.1992
WO9400757A1	06.01.1994	AU4349693A	24.01.1994

PCT/ISA/210 表(同族专利附件)(2004 年 1 月)